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CENTRAL INTELLIGENCE AGENCY

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INFORMATION REPORT

COUNTRY France

SUBJECT Production of Despecified Bovine Plasma

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2. "We plan to build a new plant at Marcy l'Etoile (Rhône), near Lyons, for the production of despecified bovine plasma. (This is not an industrial zone and hence war risk will be small.) The plant will consist of four rooms, a fabrication or preparation room of 80-100 m², a bottling room of 20-25 m², a washing room of 25-30 m², and a sterilization room of 20-25 m². When the plant is equipped with the items listed below it will be able to produce 10-12,000 - 500cc bottles of plasma per month. Production could easily be expanded (see par 3).

- One vat of 150-200 liters for the preparation of saline solutions.
- Two containers of 100 liters each for the storage of saline solutions.
- One Seitz filtration-sterilization filter for the saline solutions.
- One vat of 300 liters for the storage of citrated blood.
- One Alfa Laval centrifuge for the separation of plasma globules from the citrated blood.
- One vat of 200 liters for the storage of the bovine plasma.

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One vat of 300 liters with an agitator system - compressed air - vacuum - steam sterilization, for treating with formaldehyde.

One vat of two tank type but with a double bottom to permit heating by steam or cooling by water or brine.

One container of 300 liters for the storage of despecified plasma.

One antiseptic type bottling system.

One autoclave.

One electric oven for sterilization of bottles.

One Tyndall sterilizer.

All of the vats, containers, etc. will be of 18/8 stainless steel. The total cost of the above equipment will be 10 million francs.

3. "There will be an ample supply of blood for the plant, sufficient for considerable expansion. Nearby are two of the largest French slaughterhouses, Lyon-la-Monche and Villefranche d'Allier. Cattle with an average weight of 500 kilos could be bled weekly of six liters. However, for economic reasons, they are simply bled, aseptically, of eight liters a few hours before they are slaughtered. The blood is placed in a citrate solution with a determined pH content. Within two hours after the bleeding there is a separation of plasma globules. (Incidentally, the pH should be between 6.6 and 7.8 during production, and 7.4 and 7.8 in the bottle of finished product.)
4. "Our experience in this field covers four, almost five years. The bottles of despecified plasma have been stocked at laboratory temperature. During the summer some bottles have been stored in rooms where the temperature went up to 35-40°C. The plasma has been preserved perfectly. This experiment has been confirmed by that of Prof d'Antona at the Solavo Institute in Siena."

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